

WHAT IS CLAIMED IS:

1. A method for wireless communication for non-latency-dependent data, the method comprising:
- (a) receiving data for transmission to a base station;
 - (b) determining whether the data is appropriate for transmission over a digital control channel; and
 - (c) if the data is not appropriate for transmission over a digital control channel, transmitting the data over a traffic channel.

2. The method of claim 1, wherein said determining includes determining whether the data is less than a predetermined size.

3. A method for wireless communication for non-latency-dependent data, the method comprising:
- (a) receiving data for transmission to a base station;
 - (b) determining whether the data is appropriate for transmission over a digital control channel;
 - (c) if the data is appropriate for transmission over a digital control channel, determining whether network conditions are favorable for transmission over a digital control channel; and
 - (d) if network conditions are favorable, transmitting the data over a digital control channel to the base station.

4. The method of claim 3, further comprising the steps of:
- (e) queuing the data for future transmission if network conditions are not favorable for transmitting the data; and
 - (f) repeating step (c) until network conditions are favorable for transmitting data.

1 5. The method of claim 4, wherein said determining whether the data is appropriate for
 2 transmission over a digital control channel includes determining whether the data is less
 3 than a predetermined size.

1 6. The method of claim 5, wherein conditions favorable for transmission include the
 2 existence of a slot in the digital control channel into which the data can be placed for
 3 transmission.

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1 A method for wireless communication for non-latency-dependent data, the method
 2 comprising:
 3 (a) receiving data for transmission to a base station;
 4 (b) determining whether the data is appropriate for transmission over a digital control
 5 channel;
 6 (c) if the data is appropriate for transmission over a digital control channel, queuing
 7 the received data for transmission;
 8 (c) monitoring network conditions for conditions favorable for transmission; and
 9 (d) transmitting the data over a digital central channel when network conditions are
 10 favorable for transmission.

1 8. The method of claim 7, wherein the conditions favorable for transmission include the
 2 existence of a slot in the digital control channel into which the data can be placed for
 3 transmission.

9. An apparatus for transmitting non-latency-dependent data over a wireless system, the apparatus comprising:

- (a) a processor; and
- (b) a memory coupled to said processor, said memory storing instructions adapted to be executed on said processor, the instructions including:
 - (i) receiving data for transmission to a base station;
 - (ii) determining whether the data is appropriate for transmission over a digital control channel;
 - (iii) if the data is appropriate for transmission over a digital control channel, determining whether network conditions are favorable for transmission over a digital control channel; and
 - (iv) if network conditions are favorable, transmitting the data over a digital control channel to the base station.

10. The apparatus of claim 9, said memory storing further instructions adapted to be executed on said processor, said further instructions including:

- (v) queuing the data for future transmission if network conditions are not favorable for transmitting the data; and
- (vi) repeating step (iii) until network conditions are favorable for transmitting data.

11. The apparatus of claim 10, wherein said determining whether the data is appropriate for transmission over a digital control channel includes determining whether the data is less than a predetermined size.

12. The apparatus of claim 11, wherein conditions favorable for transmission include the existence of a slot in the digital control channel into which the data can be placed for transmission.

13. An apparatus for wireless communication for non-latency-dependent data, the apparatus comprising:

- (a) a processor; and
- (b) a memory coupled to said processor, said memory storing instructions adapted to be executed on said processor, said instructions including:
 - (i) receiving data for transmission to a base station;
 - (ii) determining whether the data is appropriate for transmission over a digital control channel;
 - (iii) if the data is appropriate for transmission over a digital control channel, queuing the received data for transmission;
 - (iv) monitoring network conditions for conditions favorable for transmission; and
 - (v) transmitting the data over a digital control channel when network conditions are favorable for transmission.

14. The apparatus of claim 13, wherein the conditions favorable for transmission include the existence of a slot in the digital control channel into which the data can be placed for transmission.

15. A medium for wireless communication of non-latency-dependent data, the medium storing instructions adapted to be executed on a processor, the instructions comprising:

- (a) receiving data for transmission to a base station;
- (b) determining whether the data is appropriate for transmission over a digital control channel;
- (c) if the data is appropriate for transmission over a digital control channel, determining whether network conditions are favorable for transmission over a digital control channel; and

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- (d) if network conditions are favorable, transmitting the data over a digital control channel to the base station.

1 16. The medium of claim 15, said medium storing further instructions adapted to be executed
2 on a processor, the further instructions comprising:

- 3 (e) queuing the data for future transmission if network conditions are not favorable
4 for transmitting the data; and
5 (f) repeating step (c) until network conditions are favorable for transmitting data.

1 17. The medium of claim 16, wherein said determining whether the data is appropriate for
2 transmission over a digital control channel includes determining whether the data is less
3 than a predetermined size.

1 18. The medium of claim 17, wherein medium conditions favorable for transmission include
2 the existence of a slot in the digital control channel into which the data can be placed for
3 transmission.

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1 A medium for wireless communication for non-latency-dependent data, the medium
2 storing instructions adapted to be executed a processor, the instructions comprising:

- 3 (a) receiving data for transmission to a base station;
4 (b) determining whether the data is appropriate for transmission over a digital control
5 channel;
6 (c) if the data is appropriate for transmission over a digital control channel, queuing
7 the received data for transmission;
8 (c) monitoring network conditions for conditions favorable for transmission; and
9 (d) transmitting the data over a digital central channel when network conditions are
10 favorable for transmission.

- 1 20. The medium of claim 19, wherein the conditions favorable for transmission include the
2 existence of a slot in the digital control channel into which the data can be placed for
3 transmission.

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